

**BACKGROUND MERCURY
VAPOR TESTING**

Prepared For:

**PARK RIDGE – NILES SCHOOL
DISTRICT #64**

8182 Greendale Avenue
Niles, IL 60714

Project Location:



**PARK RIDGE-NILES
SCHOOL DISTRICT 64**

***PARK RIDGE – NILES SCHOOL
DISTRICT #64***

*8182 Greendale Avenue
Niles, IL 60714*

Sampling Date: November 22, 2023

MEC Project #: 23-11-749-ADMIN

**Corporate
Headquarters**
2551 N. Bridge Street
Yorkville, Illinois 60560
P: 630-553-3989

Chicago Office
954 W. Washington Blvd.
Suite 425
Chicago, Illinois 60607
P: 312-535-3228

Peoria Office
3100 N. Knoxville Ave.
Suite 204
Peoria, Illinois 61603
P: 309-621-4680



PARK RIDGE – NILES SCHOOL DISTRICT #64

8182 Greendale Avenue
Niles, IL 60714

Table of Contents **MEC Project #: 23-11-749-ADMIN**

| | |
|-----------------------------------|------------------|
| <i>Sampling Report</i> | <i>Section 1</i> |
| <i>Drawings</i> | <i>Section 2</i> |
| <i>Results</i> | <i>Section 3</i> |
| <i>Calibration Certifications</i> | <i>Section 4</i> |

Midwest Environmental Consulting Services

December 1, 2023

Park Ridge – Niles School District #64
8182 Greendale Avenue
Niles, IL 60714

Attention: Noel Mendoza, Director of Facilities Management

**Subject: Background Mercury Vapor Monitoring
Park Ridge – Niles School District #64
8182 Greendale Avenue, Niles, IL 60714
MEC Project #: 23-11-749-ADMIN**

Mr. Mendoza:

Prior to the planned remediation of mercury-containing gymnasium flooring at 5 schools throughout the district, Joshua Rentauskas from Midwest Environmental Consulting Services, Inc., visited each school on November 22, 2023. The purpose of this visit was to provide background mercury vapor levels in each gymnasium utilizing a standard mercury vapor monitor.

Utilizing a calibrated Jerome Model J505-0005 Mercury Vapor Analyzer (S/N50500513), MEC surveyed each gymnasium and an adjacent area for mercury vapor. Attached are the results of the mercury vapor levels logged by the vapor analyzer. Mercury vapor concentrations detected ranged from 0.00-0.31 $\mu\text{g}/\text{m}^3$.

For comparison, the OSHA permissible exposure limit for mercury vapor is 0.1 mg/m^3 or 100 $\mu\text{g}/\text{m}^3$. Based on the results from the vapor analyzer, there was no immediate concern for Mercury Vapors at the time of testing.

If you have any questions or concerns, please feel free to contact me at (630) 553-3989. Thank you for providing us with an opportunity to service your environmental needs.

Respectfully submitted,
Midwest Environmental Consulting Services, Inc.



Joshua Rentauskas,
Industrial Hygienist

**Corporate
Headquarters**
2551 N. Bridge Street
Yorkville, Illinois 60560
P: 630-553-3989

Chicago Office
954 W. Washington Blvd.
Suite 425
Chicago, Illinois 60607
P: 312-535-3228

Peoria Office
3100 N. Knoxville Ave.
Suite 204
Peoria, Illinois 61603
P: 309-621-4680



J505 TEST RESULTS

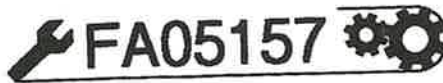
DATE: 22-Nov-23

TIME: 09:51:14

SERIAL NUMBER: 50500513

DATE, TIME, RESULT, UNIT, ALARM, SITE

| | | | | | |
|---------------------|-------|--------|---|------------|------|
| 22-Nov-23,07:11:18, | 0.00, | µg/m3, | , | CARPENTER | ELEM |
| 22-Nov-23,07:12:04, | 0.06, | µg/m3, | , | CARPENTER | ELEM |
| 22-Nov-23,07:31:05, | 0.04, | µg/m3, | , | ROOSEVELT | ELEM |
| 22-Nov-23,07:32:01, | 0.03, | µg/m3, | , | ROOSEVELT | ELEM |
| 22-Nov-23,07:35:50, | 0.00, | µg/m3, | , | ROOSEVELT | ELEM |
| 22-Nov-23,07:36:39, | 0.00, | µg/m3, | , | ROOSEVELT | ELEM |
| 22-Nov-23,07:48:44, | 0.01, | µg/m3, | , | WASHINGTON | ELEM |
| 22-Nov-23,07:49:27, | 0.06, | µg/m3, | , | WASHINGTON | ELEM |
| 22-Nov-23,08:06:40, | 0.31, | µg/m3, | , | FRANKLIN | ELEM |
| 22-Nov-23,08:07:35, | 0.00, | µg/m3, | , | FRANKLIN | ELEM |
| 22-Nov-23,08:21:25, | 0.00, | µg/m3, | , | FIELD | ELEM |
| 22-Nov-23,08:22:17, | 0.00, | µg/m3, | , | FIELD | ELEM |
| 22-Nov-23,08:25:02, | 0.01, | µg/m3, | , | FIELD | ELEM |
| 22-Nov-23,08:26:04, | 0.04, | µg/m3, | , | FIELD | ELEM |

 FA05157



CERTIFICATE NUMBER 337682
CUSTOMER NAME ECO-RENTAL SOLUTIONS LLC
ADDRESS 75 ROCKWOOD ST
ROCHESTER NY 14610
USA

INSTRUMENTATION & SPECIALTY CONTROLS DIVISION
11 Commerce Blvd. | Middleboro, MA 02346
P: 508.946.6200 | F: 508.946.6262

CERTIFICATE OF INSTRUMENT CALIBRATION

| <u>MODEL</u> | <u>SERIAL NUMBER</u> | <u>CALIBRATION DATE</u> | <u>CALIBRATION DUE DATE</u> |
|--------------|----------------------|-------------------------|-----------------------------|
| J505-0005 | 50500513 | 9/7/2023 | 9/5/2024 |

To the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques. Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications. This document shall not be reproduced, except in full, without the written approval of AMETEK Brookfield.

REFERENCE EQUIPMENT USED TO CALIBRATE THE EQUIPMENT

| <u>TYPE/MODEL</u> | <u>SERIAL/LOT NUMBER</u> | <u>CALIBRATION DATE</u> | <u>CALIBRATION DUE DATE</u> |
|-------------------|--------------------------|-------------------------|-----------------------------|
| Perm Tube | S89-58165 | 5/17/2023 | 5/17/2024 |

| <u>TYPE/MODEL</u> | <u>SERIAL/LOT NUMBER</u> | <u>CALIBRATION DATE</u> | <u>CALIBRATION DUE DATE</u> |
|-------------------|--------------------------|-------------------------|-----------------------------|
| Dynacal | M1999 | 7/4/2023 | 7/4/2024 |

| <u>TYPE/MODEL</u> | <u>SERIAL/LOT NUMBER</u> | <u>CALIBRATION DATE</u> | <u>CALIBRATION DUE DATE</u> |
|-------------------|--------------------------|-------------------------|-----------------------------|
| Alicat | 54883 | 10/20/2022 | 10/21/2023 |

| <u>TYPE/MODEL</u> | <u>SERIAL/LOT NUMBER</u> | <u>CALIBRATION DATE</u> | <u>CALIBRATION DUE DATE</u> |
|-------------------|--------------------------|-------------------------|-----------------------------|
| Fluke | 469706285 | 1/9/2023 | 1/9/2024 |

NIST TRACE # ISO13265; 072958

PROCEDURE #: 730-0123

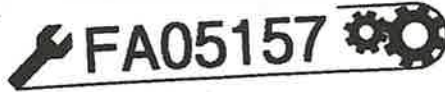
All reference equipment used to calibrate the instrument listed upon this certificate have calibrations that are traceable to the National Institute of Standards and Technology (NIST).

APPROVAL SIGNATURE



TODD PLACE, QUALITY ENGINEER

CALIBRATION PERFORMED BY RD



September 7, 2023

3375 N. Delaware Street, Chandler, AZ 85225

800.528.7411

Fax 602.281.1745

BrookfieldEngineering.com



J505 Incoming / Outgoing Data Sheet

| MODEL | SRO NUMBER | SERIAL NUMBER |
|-------|------------|---------------|
| J505 | S181727 | 50500513 |

| | |
|--|---|
| INCOMING | |
| Calibration Gas | |
| Allowable Range 22.50-27.50 ug/m ³ Hg | |
| Concentration <input type="text" value="25.0000"/> | |
| Mean <input type="text" value="32.8200"/> ug/m ³ Hg | RSD <input type="text" value="0.16%"/> |
| Calibration Status as Received: Out of Calibration. | |
| OUTGOING | |
| Calibration Verification | |
| Allowable Range 0.26-0.34 ug/m ³ | |
| Concentration <input type="text" value="0.3000"/> | |
| Mean @ Saturation <input type="text" value="0.3200"/> ug/m ³ Hg | RSD <input type="text" value="0.02%"/> |
| Outgoing Calibration Gas | |
| 24.20 - 25.80 ug/m ³ Hg | |
| Concentration <input type="text" value="25.0000"/> | |
| Mean @ Saturation <input type="text" value="24.5200"/> ug/m ³ Hg | RSD <input type="text" value="0.12%"/> |
| Calibration Status as Left: In Calibration. | |

Estimated Uncertainty of Calibration System: 3.5%